EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"017504".apn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 08:33
S2	116	((cluster$3 or group$3) with categor$3 with (structur$3 or tree or hierarch$3)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 09:53
S3	354	(weight$3 or scor$3 or rank$3) with vector with categor$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 08:36
S4	0	S2 and S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 08:36
S5	1426	((cluster$3 or group$3) with categor$3 with (structur$3 or tree or hierarch$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 08:37
S6	10	S3 and S5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 08:37
S7	5	S6 and @ad<"20010904"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 09:55
S8	283	((cluster$3 or group$3 or class$9) with categor$3 with (structur$3 or tree or hierarch$3)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 09:54

EAST Search History

S9	3308	((cluster$3 or group$3 or class$9) with categor$3 with (structur$3 or tree or hierarch$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 09:54
S10	26972	(organizat$3 with (structur$3 or tree or hierarch$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 09:54
S11	354	(weight$3 or scor$3 or rank$3) with vector with categor$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 10:41
S12	15	S11 and S9 and @ad<"20010904"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 11:50
S13	6	S12 and S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 09:55
S14	15	(weight$3 or scor$3 or rank$3) and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 11:53
S15	15	S11 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 11:44
S16	1	S15 and (707/100).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 11:49

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S17	3	S15 and (707/3).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 11:47
S18	3	S15 and (707/5).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 11:44
S19	675	(modif$6 or updat$3 or chang$3) with categor$3 with (structur$3 or tree or hiearch$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 11:50
S20	158	S19 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 11:50
S21	1	S20 and S11 and @ad<"20010904"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 11:50
S22	5590	(calculat$3 or comput$3 or measur$3) with (weight$3 or scor$3 or rank$3) with vector	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 11:54
S23	230	(calculat$3 or comput$3 or measur$3) with (weight$3 or scor$3 or rank$3) with vector with document	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 11:55
S24	1	S23 and S8 and S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/29 11:55

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combination (weighted **vector** sum) of the **feature vectors**, using the user .... This **structure** consists of 15 unique tasks, grouped into 5 task **categories**: ...
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We named the nodes in the **category structure** as "templates. ... We did not select all words of the Web pages for the **feature vector**. ...
www.isoc.org/inet98/proceedings/1x/1x_5.htm - 31k - Cached - Similar pages

System for categorizing documents in a linked collection of ...
processing means for applying said classification criteria to **feature vectors** to determine if a document is in a corresponding **category**. ...
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The **feature vector** associated with a node is an intensity-domain spin image ... is simply a set of **cluster** centers with weights corresponding to relative ...
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[PDF] Su Li f Natural Sciences Article IDú1007í¬1202(2004)03í¬0339í¬04 ...

File Format: PDF/Adobe Acrobat
... to reduce the dimensionality of the **category feature vector** space which can ... get the probability **structure** of input **vectors** quicklyú¼and its **cluster** ...
engine.cqvip.com/content/tn/85480x/2004/009/003/gc54_tn6_10166072.pdf - Similar pages

Method and apparatus for determining and organizing **feature** ...
The device of claim 2 wherein the **structure** of said neural network has at least one .....
The **feature vector** is obtained 270 and the appropriate **cluster** is ...
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1 Data clustering: a review
A. K. Jain, M. N. Murty, P. J. Flynn
September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3
Publisher: ACM Press
Full text available: pdf(636.24 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

2 Special issue on special feature: Distributional word clusters vs. words for text categorization
Ron Bekkerman, Ran El-Yaniv, Naftali Tishby, Yoad Winter
March 2003 **The Journal of Machine Learning Research**, Volume 3
Publisher: MIT Press
Full text available: pdf(176.53 KB) Additional Information: full citation, abstract, citings, index terms

We study an approach to text categorization that combines distributional clustering of words and a Support Vector Machine (SVM) classifier. This word-cluster representation is computed using the recently introduced *Information Bottleneck* method, which generates a compact and efficient representation of documents. When combined with the classification power of the SVM, this method yields high performance in text categorization. This novel combination of SVM with word-cluster representation ...

3 Feature-based similarity search in graph structures
Xifeng Yan, Feida Zhu, Philip S. Yu, Jiawei Han
December 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 4
Publisher: ACM Press
Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references, index terms

Similarity search of complex structures is an important operation in graph-related applications since exact matching is often too restrictive. In this article, we investigate the issues of *substructure similarity search using indexed features* in graph databases. By transforming the edge relaxation ratio of a query graph into the maximum allowed feature misses, our structural filtering algorithm can filter graphs without performing pairwise similarity computation. It is further shown that ...

Keywords: Graph database, complexity, index, similarity search

4 Special issue on ICML: Coupled clustering: a method for detecting structural correspondence

Zvika Marx, Ido Dagan, Joachim M. Buhmann, Eli Shamir
March 2003 **The Journal of Machine Learning Research**, Volume 3
Publisher: MIT Press
Full text available: pdf(967.15 KB) Additional Information: full citation, abstract, citings, index terms

This paper proposes a new paradigm and a computational framework for revealing equivalencies (analogies) between sub-structures of distinct composite systems that are initially represented by unstructured data sets. For this purpose, we introduce and investigate a variant of traditional data clustering, termed *coupled clustering*, which outputs a configuration of corresponding subsets of two such representative sets. We apply our method to synthetic as well as textual data. Its achievement ...

5 Research track: Visualizing changes in the structure of data for exploratory feature selection

Elias Pampalk, Werner Goebl, Gerhard Widmer
August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '03**
Publisher: ACM Press
Full text available: pdf(642.44 KB) Additional Information: full citation, abstract, references, citings, index terms

Using visualization techniques to explore and understand high-dimensional data is an efficient way to combine human intelligence with the immense brute force computation power available nowadays. Several visualization techniques have been developed to study the cluster structure of data, i.e., the existence of distinctive groups in the data and how these clusters are related to each other. However, only few of these techniques lend themselves to studying how this structure changes if the feature ...

Keywords: high-dimensional data, interactive data mining

6 Content 2: image clustering: Web image clustering by consistent utilization of visual features and surrounding texts

Bin Gao, Tie-Yan Liu, Tao Qin, Xin Zheng, Qian-Sheng Cheng, Wei-Ying Ma
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press
Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, references, index terms

Image clustering, an important technology for image processing, has been actively researched for a long period of time. Especially in recent years, with the explosive growth of the Web, image clustering has even been a critical technology to help users digest the large amount of online visual information. However, as far as we know, many previous works on image clustering only used either low-level visual features or surrounding texts, but rarely exploited these two kinds of information in the s ...

Keywords: co-clustering, consistency, image processing, spectral graph

7 Semantic clustering and querying on heterogeneous features for visual data

Gholamhosein Sheikholeslami, Wendy Chang, Aidong Zhang
September 1998 **Proceedings of the sixth ACM international conference on Multimedia MULTIMEDIA '98**
Publisher: ACM Press
Full text available: pdf(1.37 MB) Additional Information: full citation, references, citings, index terms

8 Clustering and searching WWW images using link and page layout analysis

Xiaofei He, Deng Cai, Ji-Rong Wen, Wei-Ying Ma, Hong-Jiang Zhang
May 2007 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 3 Issue 2
Publisher: ACM Press
Full text available: pdf(28.98 MB) Additional Information: full citation, abstract, references, index terms

Due to the rapid growth of the number of digital images on the Web, there is an increasing demand for an effective and efficient method for organizing and retrieving the available images. This article describes iFind, a system for clustering and searching WWW images. By using a vision-based page segmentation algorithm, a Web page is partitioned into blocks, and the textual and link information of an image can be accurately extracted from the block containing that image. The textual informatio ...

Keywords: Web mining, image clustering, image search, link analysis

9 Applications: Fast retrieval of high-dimensional feature vectors in P2P networks using compact peer data summaries

Wolfgang Müller, Andreas Henrich
November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval MIR '03**
Publisher: ACM Press
Full text available: pdf(378.07 KB) Additional Information: full citation, abstract, references, citings, index terms

The retrieval facilities of most Peer-to-Peer (P2P) systems are limited to queries based on a unique identifier or a small set of keywords. The techniques used for this purpose are hardly applicable for content-based image retrieval (CBIR) in a P2P network. Furthermore, we will argue that the curse of dimensionality and the high communication overhead prevent the adaptation of multidimensional search trees or fast sequential scan techniques for P2P CBIR. In the present paper we will propose two ...

10 Description and Analysis: Using web structure for classifying and describing web pages

Eric J. Glover, Kostas Tsioutsiouliklis, Steve Lawrence, David M. Pennock, Gary W. Flake
May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**
Publisher: ACM Press
Full text available: pdf(136.12 KB) Additional Information: full citation, abstract, references, citings, index terms

The structure of the web is increasingly being used to improve organization, search, and analysis of information on the web. For example, Google uses the text in citing documents

(documents that link to the target document) for search. We analyze the relative utility of document text, and the text in citing documents near the citation, for classification and description. Results show that the text in citing documents, when available, often has greater discriminative and descriptive power than th ...

Keywords: SVM, anchortext, classification, cluster naming, entropy based feature extraction, evaluation, web directory, web structure

11 Research track paper: Consistent bipartite graph co-partitioning for star-structured high-order heterogeneous data co-clustering

Bin Gao, Tie-Yan Liu, Xin Zheng, Qian-Sheng Cheng, Wei-Ying Ma

August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**

Publisher: ACM Press

Full text available: pdf(560.22 KB) Additional Information: full citation, abstract, references, citings, index terms

Heterogeneous data co-clustering has attracted more and more attention in recent years due to its high impact on various applications. While the co-clustering algorithms for two types of heterogeneous data (denoted by pair-wise co-clustering), such as documents and terms, have been well studied in the literature, the work on more types of heterogeneous data (denoted by high-order co-clustering) is still very limited. As an attempt in this direction, in this paper, we worked on a specific case of ...

Keywords: co-clustering, consistency, high-order heterogeneous data, spectral graph

12 Spectral clustering for multi-type relational data

Bo Long, Zhongfei (Mark) Zhang, Xiaoyun Wú, Philip S. Yu

June 2006 **Proceedings of the 23rd international conference on Machine learning ICML '06**

Publisher: ACM Press

Full text available: pdf(240.84 KB) Additional Information: full citation, abstract, references, cited by, index terms

Clustering on multi-type relational data has attracted more and more attention in recent years due to its high impact on various important applications, such as Web mining, e-commerce and bioinformatics. However, the research on general multi-type relational data clustering is still limited and preliminary. The contribution of the paper is three-fold. First, we propose a general model, the collective factorization on related matrices, for multi-type relational data clustering. The model is appli ...

13 Concept features in Re:Agent, an intelligent Email agent

Gary Boone

May 1998 **Proceedings of the second international conference on Autonomous agents AGENTS '98**

Publisher: ACM Press

Full text available: pdf(1.07 MB) Additional Information: full citation, references, citings, index terms

14 Research sessions: Research 7: Indexing: FIX: feature-based indexing technique for XML documents

Ning Zhang, M. Tamer Özsu, Ihab F. Ilyas, Ashraf Aboulnaga

September 2006 **Proceedings of the 32nd international conference on Very large data bases VLDB '06**

Publisher: VLDB Endowment
Full text available: pdf(965.30 KB) Additional Information: full citation, abstract, references, index terms

Indexing large XML databases is crucial for efficient evaluation of XML twig queries. In this paper, we propose a feature-based indexing technique, called FIX, based on spectral graph theory. The basic idea is that for each twig pattern in a collection of XML documents, we calculate a vector of features based on its structural properties. These features are used as keys for the patterns and stored in a B+tree. Given an XPath query, its feature vector is first calculated and looked up ...

15 Multimedia and visualization (MV): A pivot-based index structure for combination of feature vectors
Benjamin Bustos, Daniel Keim, Tobias Schreck
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
Publisher: ACM Press
Full text available: pdf(172.44 KB) Additional Information: full citation, abstract, references, index terms

We present a novel indexing schema that provides efficient nearest-neighbor queries in multimedia databases consisting of objects described by multiple feature vectors. The benefits of the simultaneous usage of several (statically or dynamically) weighted feature vectors with respect to retrieval *effectiveness* have been previously demonstrated. Support for *efficient* multi-feature vector similarity queries is an open problem, as existing indexing methods do not support dynamically p ...

Keywords: combination of features, content-based indexing and retrieval, nearest neighbor queries

16 Semantic annotation and integration: Web taxonomy integration using support vector machines
Dell Zhang, Wee Sun Lee
May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**
Publisher: ACM Press
Full text available: pdf(191.33 KB) Additional Information: full citation, abstract, references, citings, index terms

We address the problem of integrating objects from a source taxonomy into a master taxonomy. This problem is not only currently pervasive on the web, but also important to the emerging semantic web. A straightforward approach to automating this process would be to train a classifier for each category in the master taxonomy, and then classify objects from the source taxonomy into these categories. In this paper we attempt to use a powerful classification method, Support Vector Machine (SVM), to a ...

Keywords: classification, ontology mapping, semantic web, support vector machines, taxonomy integration, transductive learning

17 Real-time shading
Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(7.39 MB) Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-

of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

18 Content 2: image clustering: Iteratively clustering web images based on link and attribute reinforcements

Xin-Jing Wang, Wei-Ying Ma, Lei Zhang, Xing Li

November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: pdf(248.02 KB) Additional Information: full citation, abstract, references, index terms

Image clustering is an important research topic which contributes to a wide range of applications. Traditional image clustering approaches are based on image content features only, while content features alone can hardly describe the semantics of the images. In the context of Web, images are no longer assumed homogeneous and "flatdistributed but are richly structured. There are two kinds of reinforcements embedded in such data: 1) the reinforcement between attributes of different data types (int ...

Keywords: image clustering, iterative reinforcement, link mining

19 PageCluster: Mining conceptual link hierarchies from Web log files for adaptive Web site navigation

Jianhan Zhu, Jun Hong, John G. Hughes

May 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 2

Publisher: ACM Press

Full text available: pdf(280.84 KB) Additional Information: full citation, abstract, references, citings, index terms

User traversals on hyperlinks between Web pages can reveal semantic relationships between these pages. We use user traversals on hyperlinks as weights to measure semantic relationships between Web pages. On the basis of these weights, we propose a novel method to put Web pages on a Web site onto different conceptual levels in a link hierarchy. We develop a clustering algorithm called PageCluster, which clusters conceptually-related pages on each conceptual level of the link hierarchy based on th ...

Keywords: Link hierarchies, Web site navigation, bibliographic analysis, clustering, conceptual link hierarchies, link similarity

20 A comparative study for domain ontology guided feature extraction

Bill B. Wang, R. I. Bob Mckay, Hussein A. Abbass, Michael Barlow

February 2003 **Proceedings of the 26th Australasian computer science conference - Volume 16 ACSC '03**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(119.73 KB) Additional Information: full citation, abstract, references, citings, index terms

We introduced a novel method employing a hierarchical domain ontology structure to extract features representing documents in our previous publication (Wang 2002). All raw words in the training documents are mapped to concepts in a concept hierarchy derived from the domain ontology. Based on these concepts, a concept hierarchy is established for the training document space, using is-a relationships defined in the domain ontology. An optimum concept set may be obtained by searching the concept hi ...

Keywords: χ^2 statistics, KNN algorithm, concept hierarchy, information gain, ontology, principal component analysis, text classification

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